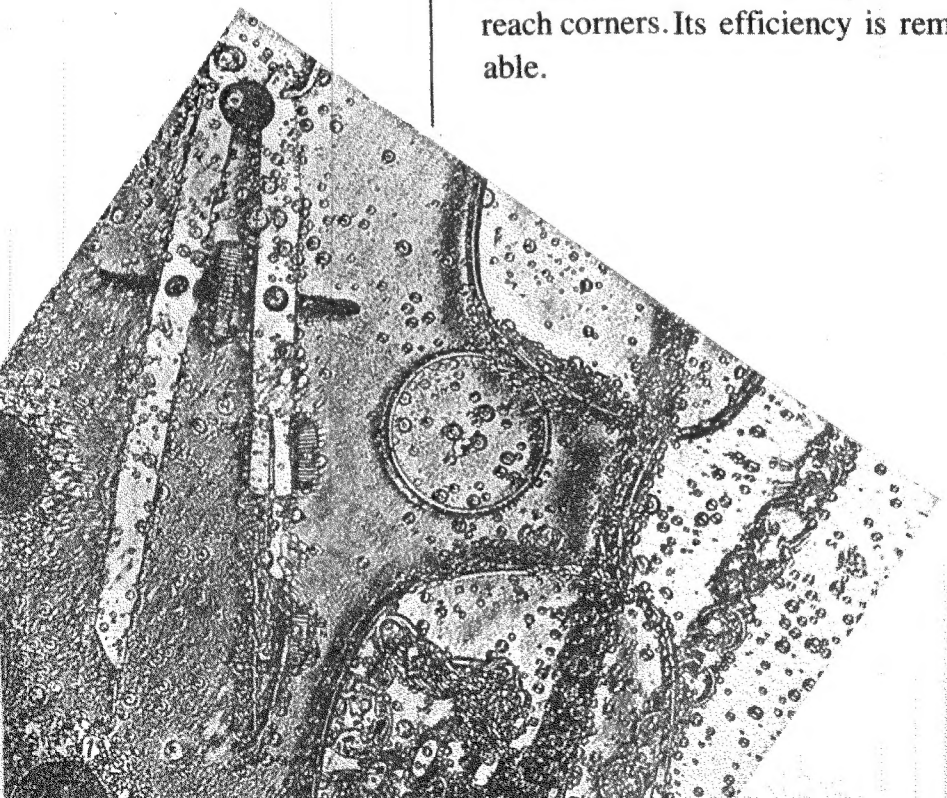
INSTRUCTIONS OF

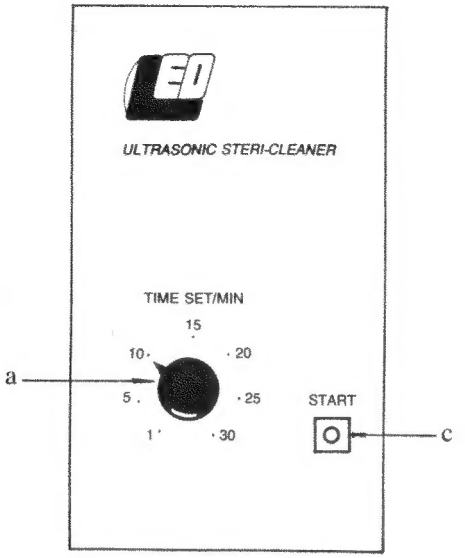
ULTRASONIC STERI – CLEANER

PRINCIPLE OF OPERATION

A supersonic wave of 46,000 cycles per second is generated through the cleansing liquid. The action of this longitudinal wave causes dielectric pressure to build up, resulting in numerous micro-vacuum bubbles producing the effect of cavitation. When these bubbles ex-plode, the force of their explosion removes the encrusted dirt, grime or other undesirable substance, even in tiny, hard-to-reach corners. Its efficiency is remarkable.



NOMENCLATURE AND FUNCTIONS OF THE PARTS



a. Time Setting Button:
For setting the cleaning time required.

b. Temperature Control Switch and Solution Temperature Setting Button: For turning on heating device and setting the temperature of solution in tank.

c. Start/Off Power Switch:
For controlling operation of the cleaner.

d. Indicating Light:
Indicate that temperature control device has been turned on.

e. Indicating Light:
Indicate that heater is in operation.
(When indicating lights d, e come on, please note that the liquid level in the tank shall not be lower than half of the depth of the tank.)

OPERATION PROCEDURES AND METHOD FOR USAGE

1. Prior to use, please fill cleaning solution in the tank about 70–80% full.
   (Items to be cleaned shall be fully emerged in the cleaning solution)
2. Plug the power plug of the machine into the power outlet (receptacle). (please make sure that the voltage is correct).
3. Please put the item to be cleaned slightly into the tank or clamp it with a fixture.
4. Rotate temperature setting button (red) to desired solution temperature. At this time, heating indicating light will come on. (Please refer to Item d on page 2).
5. When the temperature of solution in the tank is lower than the temperature set, ''Heater On'' light will come on. When the temperature of solution is heated to temperature set, ''Heater On'' light will come off.
6. Rotate the cleaning time setting button (green) to desired cleaning time.
7. Depress START button, cleaning indicating light will come on. (Please refer to Item c on page 2). Cleaner will start operation.
8. The cleaning process will be controlled by micro-computer. When the cleaning time set previously is reached, the cleaner will stop operation automatically.
9. If continuous operation is desired after cleaner is shutdown, just depress START button again.

SPECIFICATIONS

Outer Size	: 175×160×210m/m
Tank Size	: 150×135×100m/m
Tank Capacity	: 2L
Tank Stuff	: stainless Steel SUS 304
Outer Box Stuff	: ABS (UL Fire Protected)
Dust Cover Stuff	: Stainless Steel SUS 304
Operating Frequency	: 46KHz
Power	: 80 W
Power Source	: 110/220V AC, 50/60 Hz, Single Phase.

APPLICABILITY

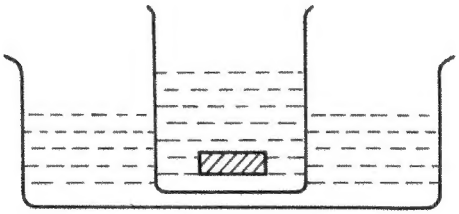
1. Cleaning of various instruments in dental, ophthalmological clinic prior to sterilization.
2. Cleaning for jewlery and gold smith processing industry after grinding.
3. Manufacture of chips and IC.
4. Cleaning of beakers and test tubes in various laboratories.
5. Manufacture of denture molds.
6. Cleaning of optical lens after grinding.
7. Cleaning of lens of camera, microscopes.
8. Cleaning of machine plates used in electronic field.

SAFETY PRECAUTIONS

1. Use 110/220V AC power to activate the machine (refer to the specifications of the machine before operating).
2. Prior to operation, be sure that the solution level in the tank should be normal (about 70–80% full). Don't try to operate if there is no solution in the tank or the solution level is abnormal.
3. Please don't start the heating devices if there is no solution in the tank or the solution level is lower the 1/2 of the tank.
4. Be sure the machine is level, keep its environment clear, wipe up any cleaning solution spilled from the tank.
5. Never use sharp tools to clean water tank as this may damage inner surface of tank.
6. Prevent use of strong acid and alkali solution as possible. If use of such solution is necessary, please refer to "Special Cleaning Method" on page 4.
7. To assure long life of machine, never operate continuously for more than one hour.
8. When changing cleaning solutions, avoid a big difference in temperature in order to prevent damage to water tank.
9. Keep temperature of water tank below 70°C when operating for a long period of time.
10. Clean the surface of the machine with a soft cloth. Never use gasoline or other cleaning solutions to clear off the machine.
11. After use, unplug the machine from power source in order to increase life of machine.
12. Please do not try to remove or replace any part of this Cleaner thus preventing unnecessary damages.

SPECIAL CLEANING METHOD

Fill water tank to about 20% of capacity. In the water, set a glass in which cleaning solutions have been placed. The object to be cleaned can then be put directly in the glass. This is because the dielectric cleaning action generated by the supersonic wave can penetrate the side of the glass. This method offers the additional advantage of easily changing the cleaning solution.



※ ATTENTION:

"If the supply cord is damaged,it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.